

CLAIMS:

What is claimed is:

1. An extreme value measuring process of a handheld laser distance measuring device (1), wherein, in a first step, an input means (2) is actuated that triggers a measurement sequence, during which, in a second step, individual measurements of distances are triggered by the handheld laser distance measuring device (1) and, in a third step, one of at least one maximum value (4) and one minimum value (5) relative to the measurement sequence is determined by the handheld laser distance measuring device (1) from the individual measurements, wherein an extreme value difference (6) relative to the measurement sequence is calculated by the handheld laser distance measuring devices using at least one minimum value (5) and at least one maximum value (4).

2. The extreme value measurement process of claim 1, wherein, in the third step, after computation by the handheld laser distance device the measurement sequence is expanded and continued with the second step.

3. The extreme value measurement process of claim 1, wherein, in the second step, during the execution of the measurement sequence individual measurements of the distances to a plurality of different measurement points along a measurement path (10) are made triggered by the handheld laser distance measuring device (1).

4. The extreme value measurement process of claim 3, wherein, in the second step, the measurement path (10) covers at least in part a surface (9) and an object (8) arranged in front of said surface (9).

5. The extreme value measurement process of claim 4, wherein, in a further step, the computed extreme value difference (6) is displayed directly on a display means (4).

6. The extreme value measurement process of claim 5, wherein, in yet a further step, the extreme value difference (6) is used as a parameter of a further basic measuring task.

7. The extreme value measurement process of claim 6, wherein, in the third step, a plausibility test is done using an analysis of the individual measurements.

8. The extreme value measurement process of claim 7, wherein depending on the plausibility test on a display means (3) one of a message and an error tolerance (11) on a display means (3) is displayed.

9. A handheld laser distance measuring device for carrying out the extreme value measurement process of claim 1, comprising an input means (2) for activating an extreme value measurement process for joint determination of both a minimum value (5) and a maximum value (4) of the distance of a measurement sequence.

10. The hand held laser distance measuring device of claim 9, wherein the display means (3) provides a direct display of the extreme value difference (6).

11. The handheld laser distance measuring device of claim 9, wherein the display means (3) provides a direct display of the minimum value (5) and the maximum value (4).